

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Steve Durham.

Confirmation No. 3849

Application No.: 10/679,075

Attorney Docket No: 7845-A06-002

Filed: October 3, 2003

Group Art Unit: 3637

For: ENERGY GENERATING SHELTER SYSTEM AND
METHOD

Examiner: Phi Dieu Tran A

DECLARATION UNDER 37 C.F.R. 1.131(a)

Mail Stop AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

I, Steve Durham, the Applicant in the above-identified patent application, declare as follows:

1. That sometime prior to August 6, 2002, Applicant conceived and reduced to practice the Energy Generating Shelter System and Method as disclosed and claimed in the above-identified patent application. Exhibit A includes a notarized statement from the Applicant indicating the date of invention, prior to August 6, 2002;

2. That the Energy Generating Shelter System and Method conceived and reduced to practice prior to August 6, 2002 included a canopy defining a sheltered area thereunder, the sheltered area including at least one vehicle parking space. The canopy including an upper surface having a first photovoltaic device, a lower surface having a second photoelectric device, and a light emitting diode device, wherein the first and second photovoltaic devices are capable of producing an electrical current when exposed to light. A supporting structure connected to and supporting the canopy and permitting substantially unobstructed access by a vehicle to the sheltered area. An electrical load operatively connected to the photovoltaic device for utilizing the electrically generated by the photovoltaic device when the photovoltaic device is exposed to

light; wherein the shelter has no walls;

3. That the Energy Generating Shelter System and Method conceived and reduced to practice prior to August 6, 2002 included a canopy defining a sheltered area thereunder, the sheltered area including at least one vehicle parking space. A supporting structure connected to and supporting the canopy and permitting substantially unobstructed access by a vehicle to the sheltered area. A photovoltaic device associated with the canopy, the photovoltaic device being capable of producing an electrical current when exposed to sunlight, the photovoltaic device including a light emitted coating and the photovoltaic device is capable of generating electricity from the light emitted by the light emitting coating. An electrical load operatively connected to the photovoltaic device for utilizing the electrically generated by the photovoltaic device when the photovoltaic device is exposed to light, wherein the shelter has no walls, and

4. That Applicant produced or had produced drawings, built scale models, and built and full scale model of the Energy Generating Shelter System and Method prior to August 6, 2002 as evidenced by Exhibit B attached hereto. Exhibit B includes drawings and sketches, produced prior to August 6, 2002 illustrating the Energy Generating Shelter System and Method;

5. That Applicant disclosed the Energy Generating Shelter System and Method prior to August 6, 2002 to Applicant's then Patent Attorney James D. Ryndak for the intended purpose of preparing and filing the above-referenced Patent Application. Exhibit A includes a notarized statement from the Applicant indicating the disclosure of the Energy Generating Shelter System and Method to Applicant's then Patent Attorney James D. Ryndak, prior to August 6, 2002.

The declarant further states that the above statements were made with the knowledge that willful false statements and the like are punishable by fine and/or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that any such willful false statement may jeopardize the validity of this application or any patent resulting therefrom.

Date: 3-2-07

Steven J. Durham
Steve Durham

EXHIBITS A-B Attached

Applicant: S. Durban
 Application No.: 10/679,075
 Examiner: Phi Dieu Tran A

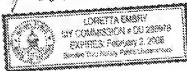
EXHIBIT A

I Steven Durban conceived and reduced to practice the Energy Dissipating Shelter System and Method ("the Invention") as disclosed and claimed in U.S. Patent Application No. 10/679,075 prior to August 6, 2002.

In the conception and reduction of practice of the Invention, I produced or had produced drawings, built scale models, and built a full scale model of the Invention prior to August 6, 2002.

Furthermore, I disclosed the Invention to my then Patent Attorney for the purpose of filing a U.S. Patent Application prior to August 6, 2002.

LUE Lu Loretta Embry, Steven Durban



3-6-07

Applicant: S. Durham
Application No.: 10/679,079
Examiner: Phi Dieu Tran A

EXHIBIT B

* Improved Carpet Roof & Alternate Embodiment for Display/Roof

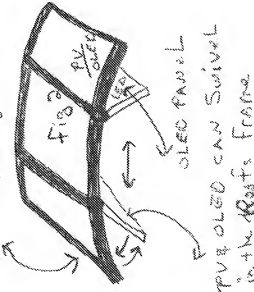
2000 © Steve Dunham
 Mike Dunham
 Michael Dunham

Diagram # 6

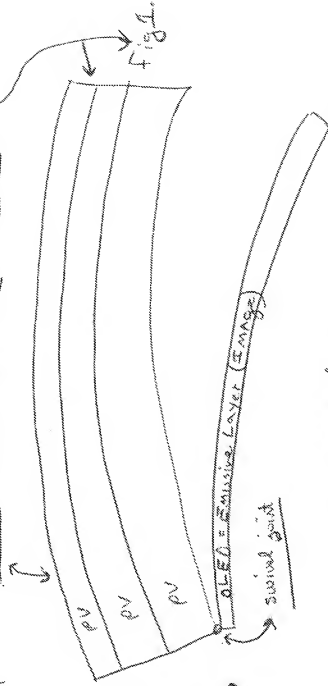
(shaded area) is frame of Roof

→ Directional Roof Panel Swivel

Alternate Embodiment of Fig 1



- The Sectional Part of this PV/OLED Carpet Roof can Tilt or Swivel



- This Layer of Roof Panel Device can Move/Tilt & Be Articulated from the PV Device, But still Attached within the Roof's Vicinity

(OLED) = Emissive Layer
 (PV) = Photo Voltaic

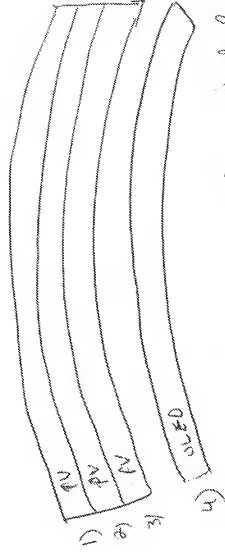
- Light can escape from & be emitted by the OLED Device.

Diagram #7

Casport Roof Panel with (PV) & (OLED) Layers

used Alternately

2000 © Steve Purdy
All Rights Reserved
Patented Design



- This OLED Layer can be unattached
from the (PV) Layers & Bonded with Temporary
Glue or Clamps

- Alternate Bonding of OLED can be placed
in the Roofs Vicinity & Unattached from the
Roof Panel

Framed Roof Panels can tilt

Diagram #8

Alana Swanson
Michael Sharp

2002 © Steve Burham



This panel
can tilt in the frame

Framed Caspott

Roof



Tilting

Sectional Blow-up of Roof Panel Tilting

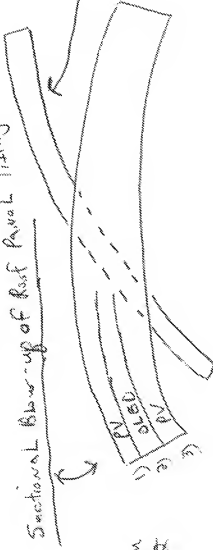


Diagram #2

Tilting
Panel in the
Framed Roof

- Blow-up of Roof Panel that can tilt within the

Framed Roof Section

- Bottom of Roof Can Display Images/Text so

pV = Photovoltaic

oLED = Emissive Layer

Vehicles parked underneath Can see Advertisements Illuminated
For Night Viewing

Improved Design of Stacked Layered OLED/PV Roof on same Substrate

- This Carport Roof using any type of Substrate can pattern

Photo Voltaic Material & Organic LED Light Emitting Materials

on the same Single Substrate using a patterning technique

for improved efficiency & reduction of ~~stacks~~ Successive Layers

© Steve Dunning 2000

M. J. J. J. J.

Michael J. J.

(OLED) can be used as a Display showing Video Content

- The emissive material is in the

Roofs Vicinity (OLED)

New Design

OLED & PV Material are patterned

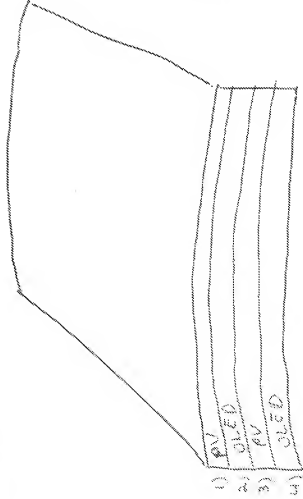
on the same single Layer

substrate & can work in

Reverse flow

OLD Design

Stacked successive Layers

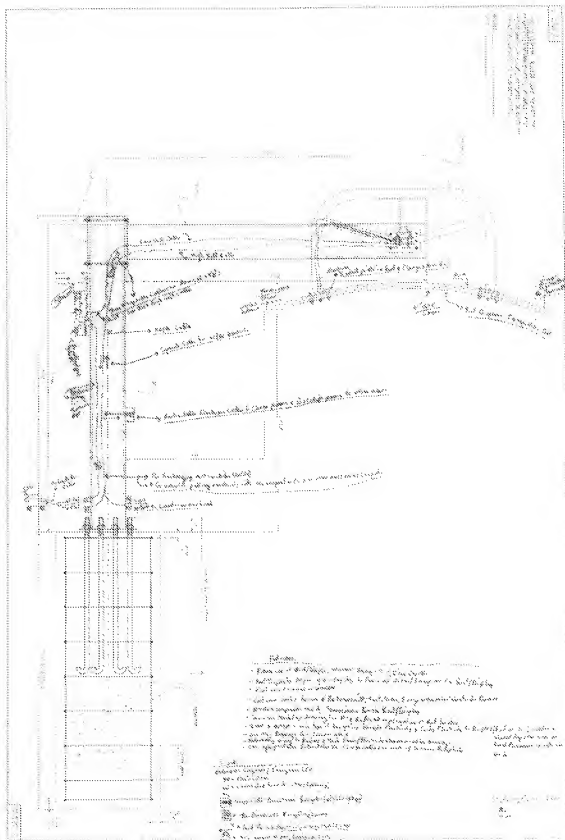


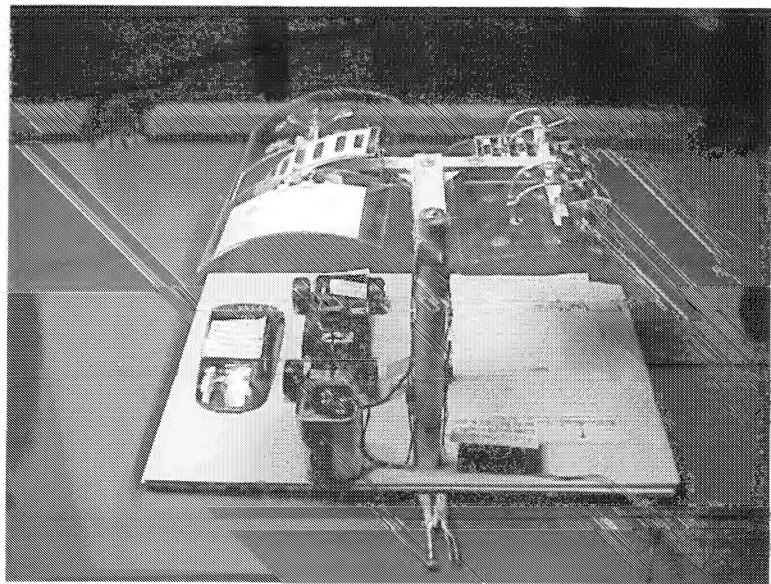
(PV) powers up the LED &

The LED powers energy DC.

Current = Reverse Flow

[illegible]





Bi-Directional
Charger/Inverter
AC to DC - DC to DC
DC to AC

↑ ↑
Bi-Directional Inverter/Charger

- This inverter unit
- + a Photovoltaic Element
- The Element is connected to a
- AC/DC inverter
- A sensitive Resistor is connected to